

UNIT 1: INTRODUCTION TO THERMODYNAMICS

1.0 Intended Learning Outcomes

- a. Explain the basic principles of thermodynamics and its properties.

1.1. Introduction

In our everyday life, we experience the presence of thermodynamics and that through the application of heat and work. Thermodynamics is a principle that governs the Universe. That is through the changes of energy from one form to another. Thermodynamics comes from two Greek words, “thermes” means heat and “dynamis” means power. The preliminaries of this principle is what our topic in this chapter.

1.2 Topics/Discussion (with Assessment/Activities)

1.2.1 Application of Areas of Thermodynamics

All activities that involves the interaction of matter and energy applies physics and thermodynamics.




Above figure illustrates those devices that may present in our houses and applies thermodynamic principles. We are using those devices in our houses that involves the analysis of thermodynamic principles.

1.2.2 Importance of Dimensions and Units

Dimensions is the characterization of any physical quantity and its magnitude is what we called the units. Mass, length, time and temperature are some of those common primary dimensions and velocity, energy and volume are some of those common secondary or derived dimensions. There are two types of units and these are the English and metric SI unit.

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Basic Thermodynamics Module 1 Nptel:

Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics Kumar, Sathish K., Radhakrishnan, Naren Shankar, 2022-06-24 Aerodynamics is a science that improves the ability to understand theoretical basics and apply fundamental physics in real life problems The study of the motion of air both externally over an airplane wing and internally over a scramjet engine intake has acknowledged the significance of studying both incompressible and compressible flow aerodynamics The Handbook of Research on Aspects and Applications of Incompressible and Compressible Aerodynamics discusses all aspects of aerodynamics from application to theory It further presents the equations and mathematical models used to describe and characterize flow fields as well as their thermodynamic aspects and applications Covering topics such as airplane configurations hypersonic vehicles and the parametric effect of roughness this premier reference source is an essential resource for engineers scientists students and educators of higher education military experts libraries government officials researchers and academicians Essentials of Coordination Chemistry Vasishta Bhatt, 2015-10-23 Essentials of Coordination Chemistry A Simplified Approach with 3D Visuals provides an accessible overview of this key foundational topic in inorganic chemistry Thoroughly illustrated within the book and supplemented by online 3D images and videos in full color this valuable resource covers basic fundamentals before exploring more advanced topics of interest The work begins with an introduction to the structure properties and syntheses of ligands with metal centers before discussing the variety of isomerism exhibited by coordination compounds such as structural geometrical and optical isomerism As thermodynamics and kinetics provide a gateway to synthesis and reactivity of coordination compounds the book then describes the determination of stability constants and composition of complexes Building upon those principles the resource then explains a wide variety of nucleophilic substitution reactions exhibited by both octahedral and square planar complexes Finally the book discusses metal carbonyls and nitrosyls special classes of compounds that can stabilize zero or even negative formal oxidation states of metal ions Highlighting preparations properties and structures the text explores the unique type of Metal Ligand bonding which enable many interesting applications of these compounds Thoughtfully organized for academic use Essentials of Coordination Chemistry A Simplified Approach with 3D Visuals encourages interactive learning Advanced undergraduate and graduate students as well as researchers requiring a full overview and visual understanding of coordination chemistry will find this book invaluable Includes valuable visual content through 3D images and videos in full color available online Provides a valuable introduction to the study of organic and inorganic ligands with metal centers Discusses advanced topics including metal carbonyls and nitrosyls **Basic Thermodynamics** B. K. VENKANNA, SWATI B. V., B. K. Venkanna, B. V. Swati, 2010-07 This book provides an in depth discussion of the principles of thermodynamics It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems The book presents the fundamental concepts of thermodynamics and describes the theory

of work and heat The text covers in detail the first law and the second law of thermodynamics with their applications It also explains the concepts of entropy and availability and irreversibility In addition the book presents thermodynamic properties of pure substances ideal gases and mixtures of ideal gases as well as real gases This book is designed for undergraduate students of mechanical engineering industrial and production engineering automobile engineering and aeronautical engineering for their courses in thermodynamics Key Features Presents the text in a simple and elegant manner to enable the students to grasp the essentials of the subject easily and quickly Covers all types of problems of various difficulty levels Includes more than 300 worked out examples and a large number of end of chapter exercises Provides solutions to several model question papers at the end of the book

Basic Thermodynamics P.B. Nagaraj,2007 This Book Titled Basic Thermodynamics Makes An Attempt To Cover The Portions Keeping In View Of The Syllabus For Iiird Semester B E Mechanical Prescribed By Visveswaraiah Technological University This Book Can Also Be Useful For Students Of Other Engineering Disciplines Like B E In Industrial Production Industrial Engineering Management Automobile Diploma In Mechanical And Ip Iem And Automobile Engineering Amie Etc The Whole Book Is Written With Precise Explanations Neat Sketches And Good Number Of Numericals The Numerical Problems From Vtu Question Papers Have Also Been Updated

Basic Thermodynamics Gerald Carrington,1994 It is well known that thermodynamics presents students with particular difficulties They find the concepts evasive and the methods obscure These problems arise because it is traditional to emphasize at the outset how general thermodynamics is Unfortunately when ideas are introduced in an unspecified context they fail to make contact with the student s experience such ideas do not become part of the physical intuition of the student as they should In this introductory text the subject is developed in stages beginning with the basic notions which are illustrated using an ideal gas as a model system The generalization of these concepts is achieved first using the classical laws of thermodynamics and second using the formalism of Gibbs to provide a systematic introduction to the thermodynamic potentials Work processes on polarizable media subject to electric and magnetic fields are discussed and transformations of matter including phase change processes and chemical reactions are treated in detail The book contains many worked examples and approximately 250 questions which are keyed to the text The questions include traditional and applied topics and longer questions have been programmed to guide the student

Basic Thermodynamics Kannappa Iynkaran,David J. Tandy,1991

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